

# Nimbus Hatchery Weir Replacement Project



**Discussion Forums**  
**December 2003**



# Project Purpose

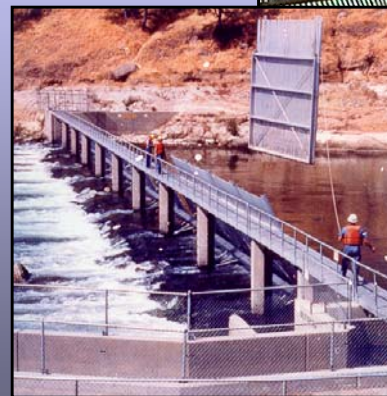
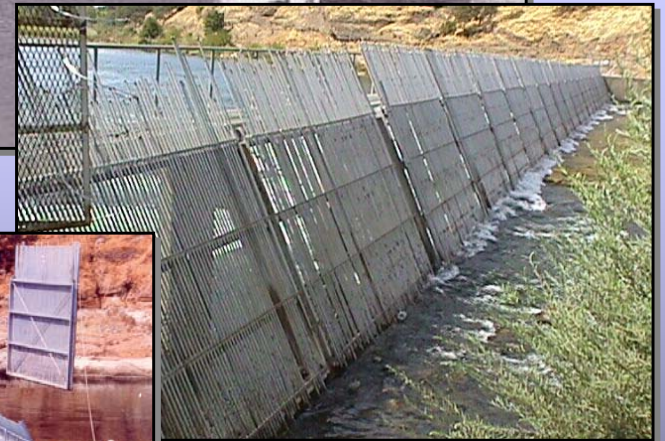
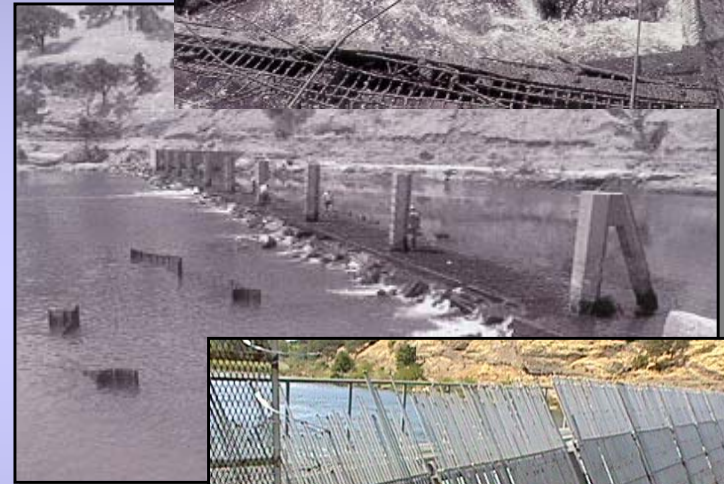
To meet the mitigation goals of the Nimbus Salmon and Steelhead Hatchery by replacing the existing weir with a new weir or replacing the existing weir with it's functional equivalent.





# Project Need

- Eroding foundation
- Reduced river flows
- Debris accumulation
- Boating hazard
- Installation safety

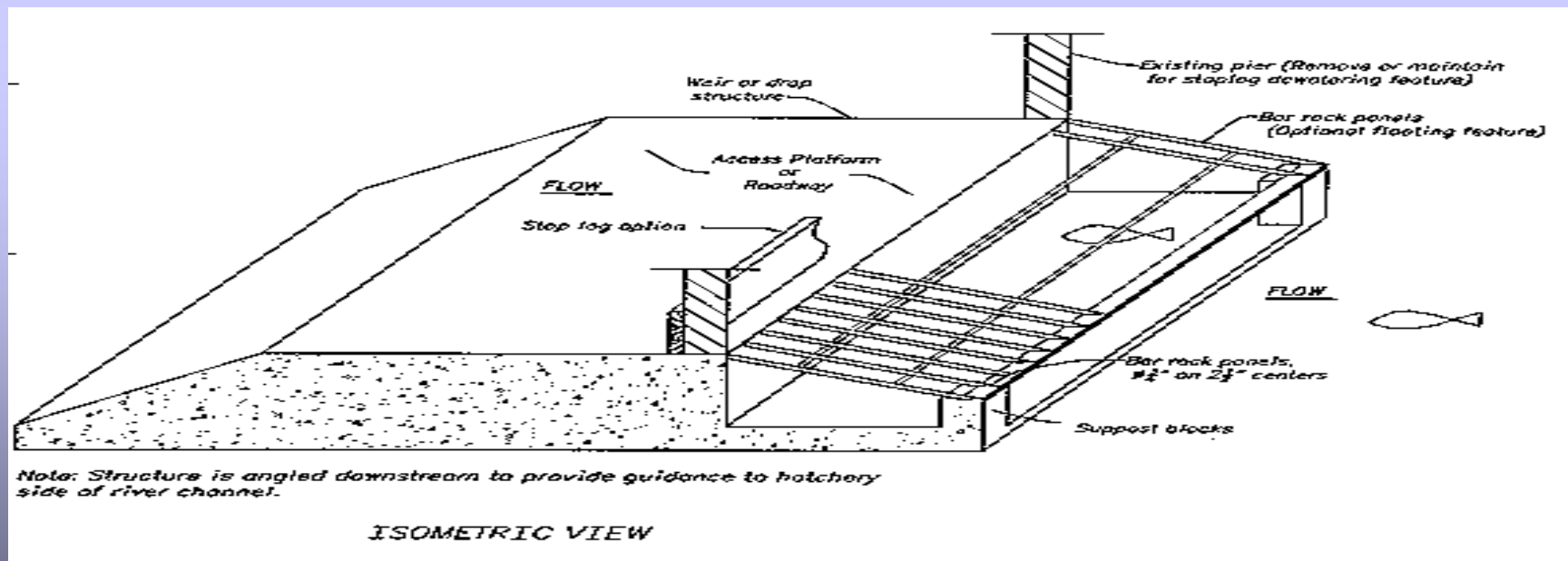


# Repairs & Modifications

- 1963 – Reconstruct 4 piers
- 1965 – Rebuild fish ladder
- 1982 – Fill foundation voids
- 1986 – Fill foundation voids
- 1999 – Fill foundation voids and install angular rock upstream

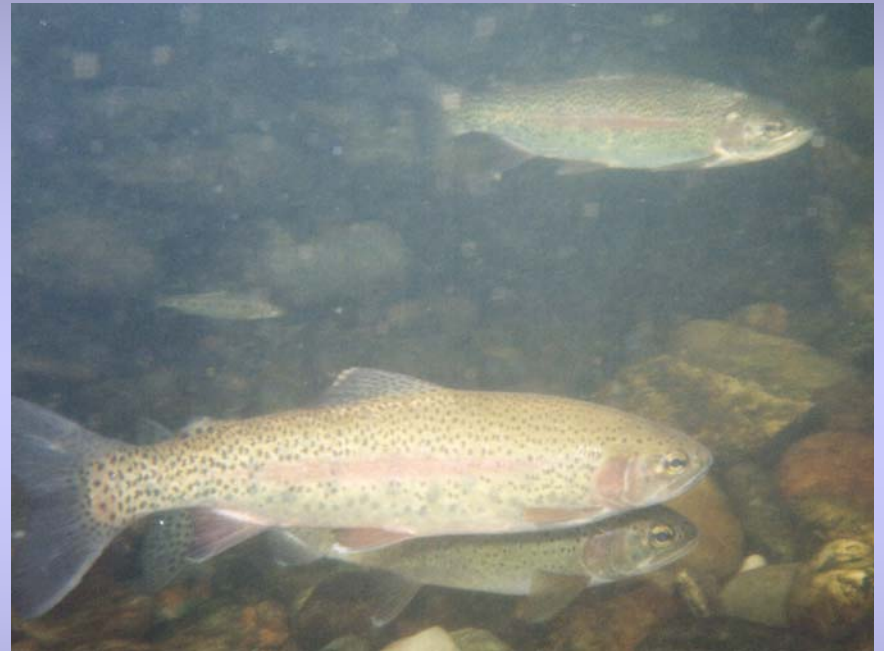
# Recent Planning Efforts

- 1996 Concept Study
- 1999 Value Analysis Workshop



# ESA Listing

- 03-19-1998 Central Valley steelhead listed as threatened
- NOAA Fisheries requested weir pass juvenile steelhead



# Preliminary Alternatives

# Alternative Overview

- **Alternative No. 1** – Build an extended fish ladder that collects fish in the Nimbus Dam stilling basin and remove the existing weir.
- **Alternative No. 2** – Build a new in-stream diversion weir in the same vicinity as the existing weir and remove the existing weir.



# Alternative No. 1 Variations

- 1a – Southern alignment with concrete and natural channel
- 1b – Southern alignment with concrete channel
- 1c – Northern alignment with concrete and natural channel



# Nimbus Hatchery Weir Replacement

## BASE MAP

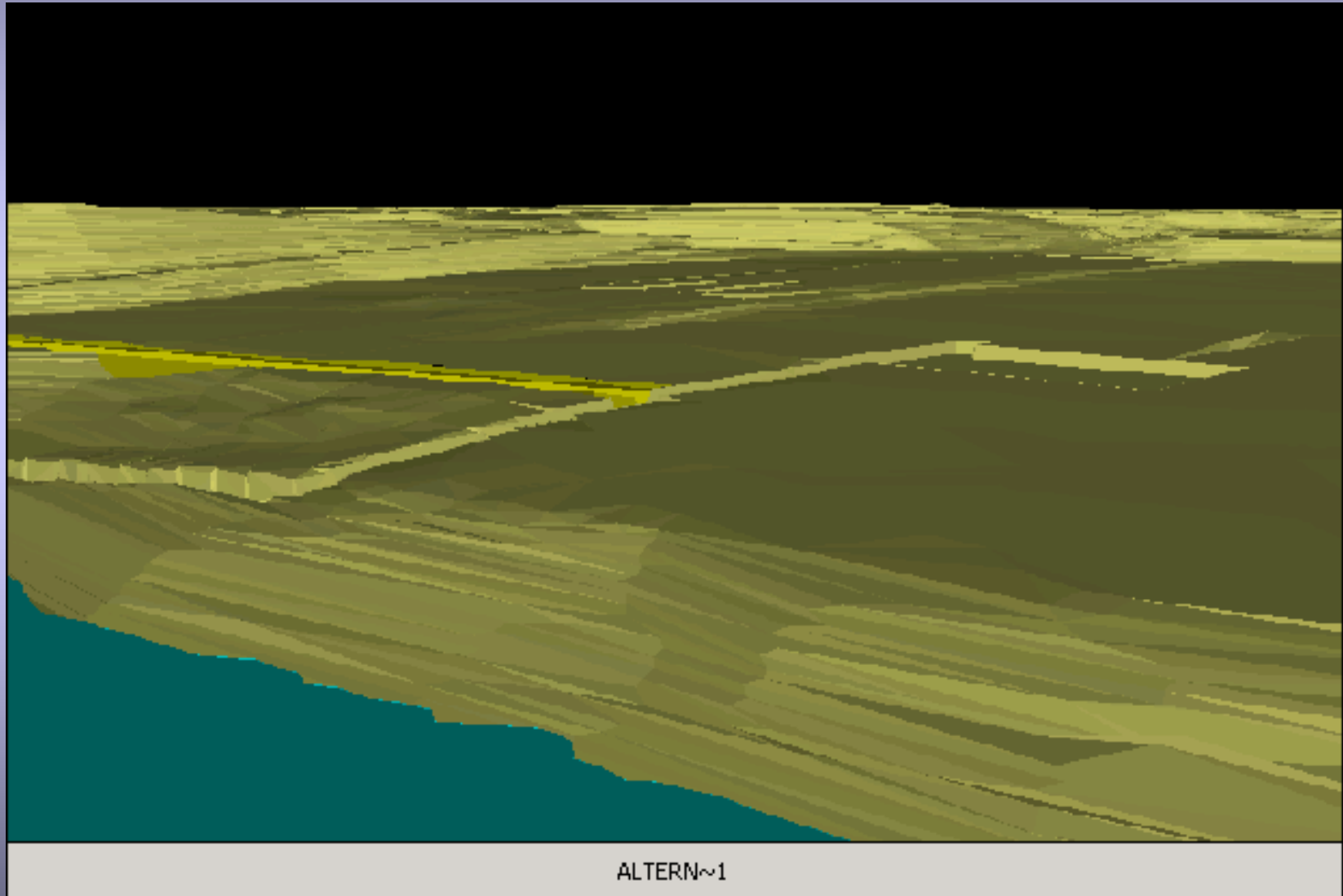




# Natural Channel Examples



# Alternative No. 1a





# Alternative No. 2



Lake  
Natoma

Proposed  
New Fish  
Barrier

Hazel Ave.

Nimbus Dam

Nimbus  
Fish  
Hatchery

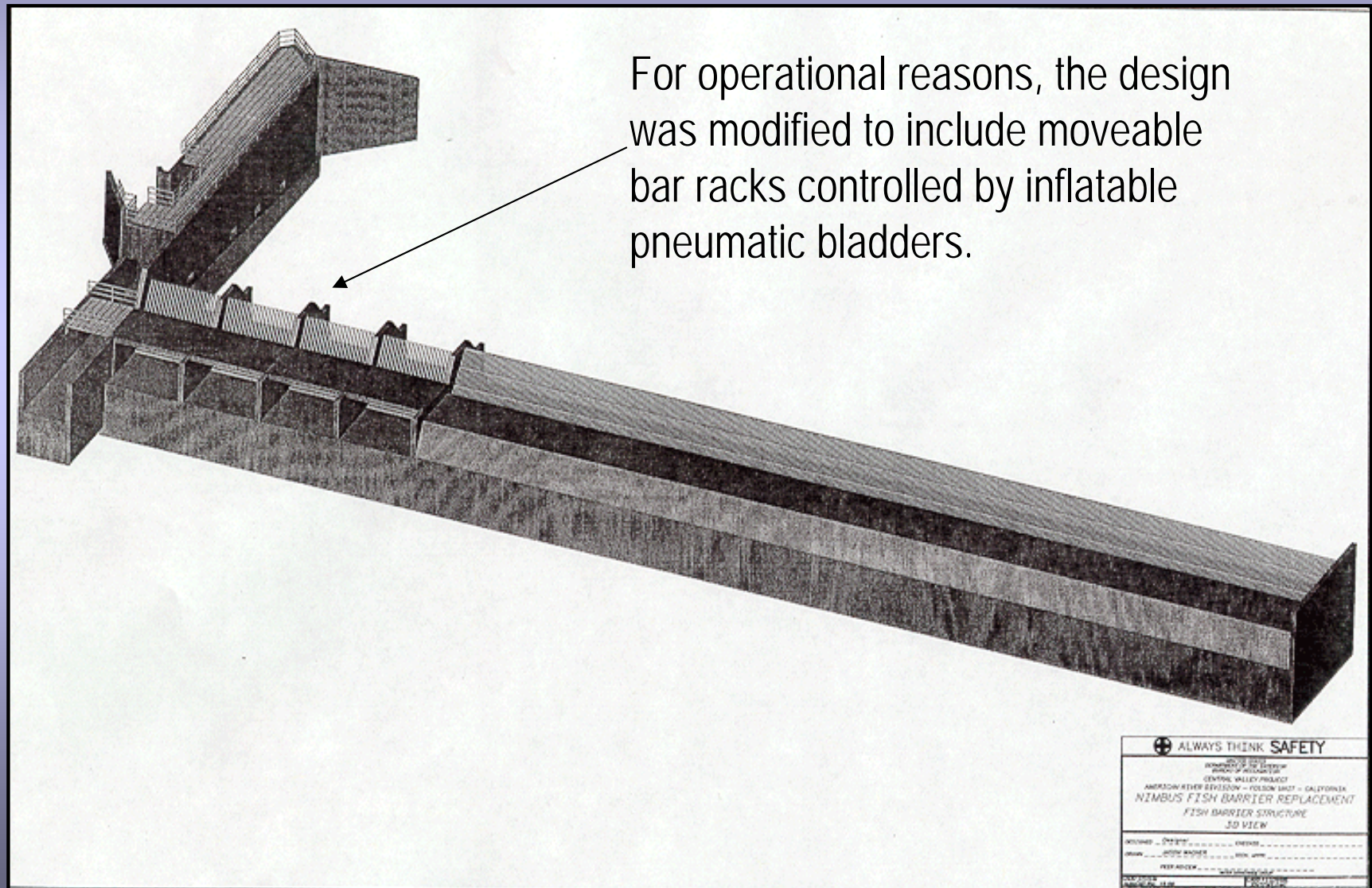
CSUS  
Aquatic  
Center

Folsom South Canal

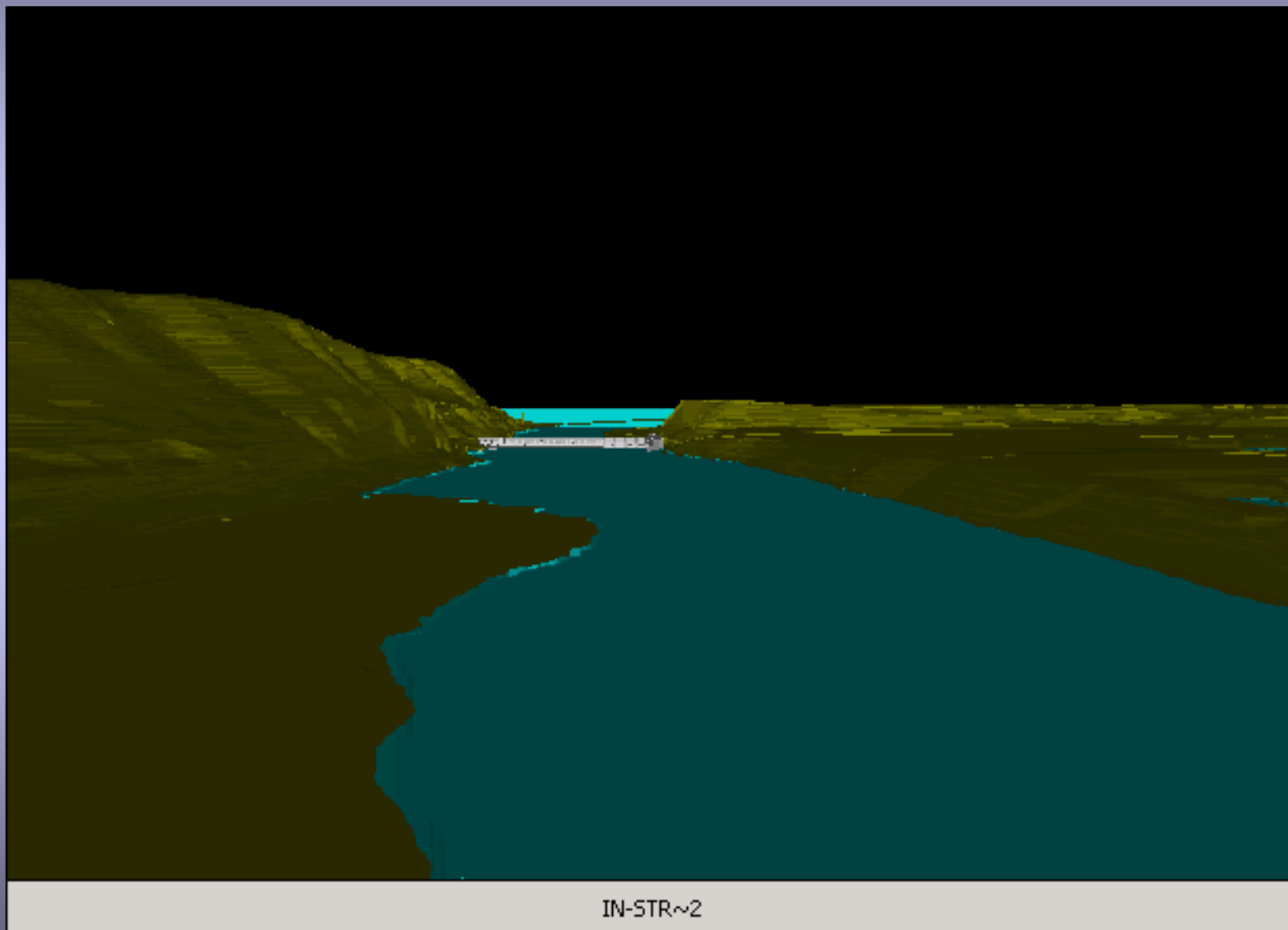




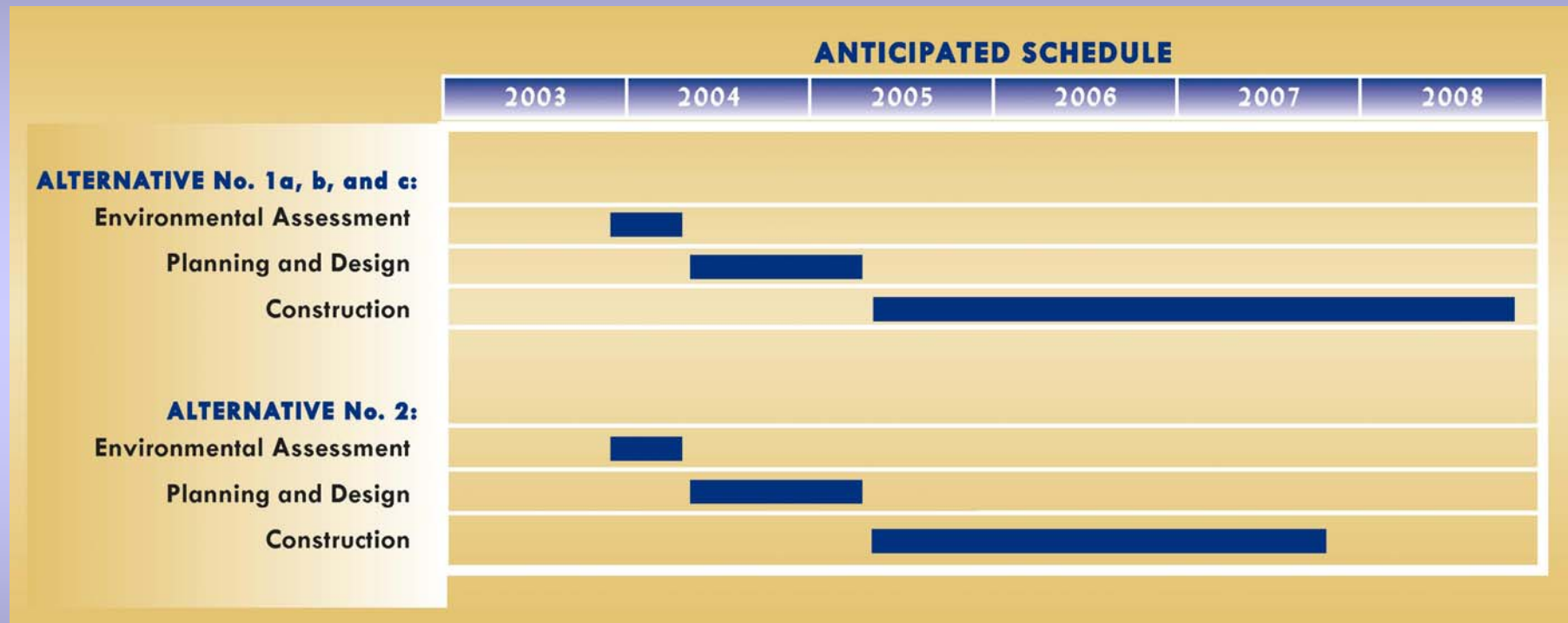
# Instream weir structure Conceptual Design



# Alternative No. 2



# Project Schedule



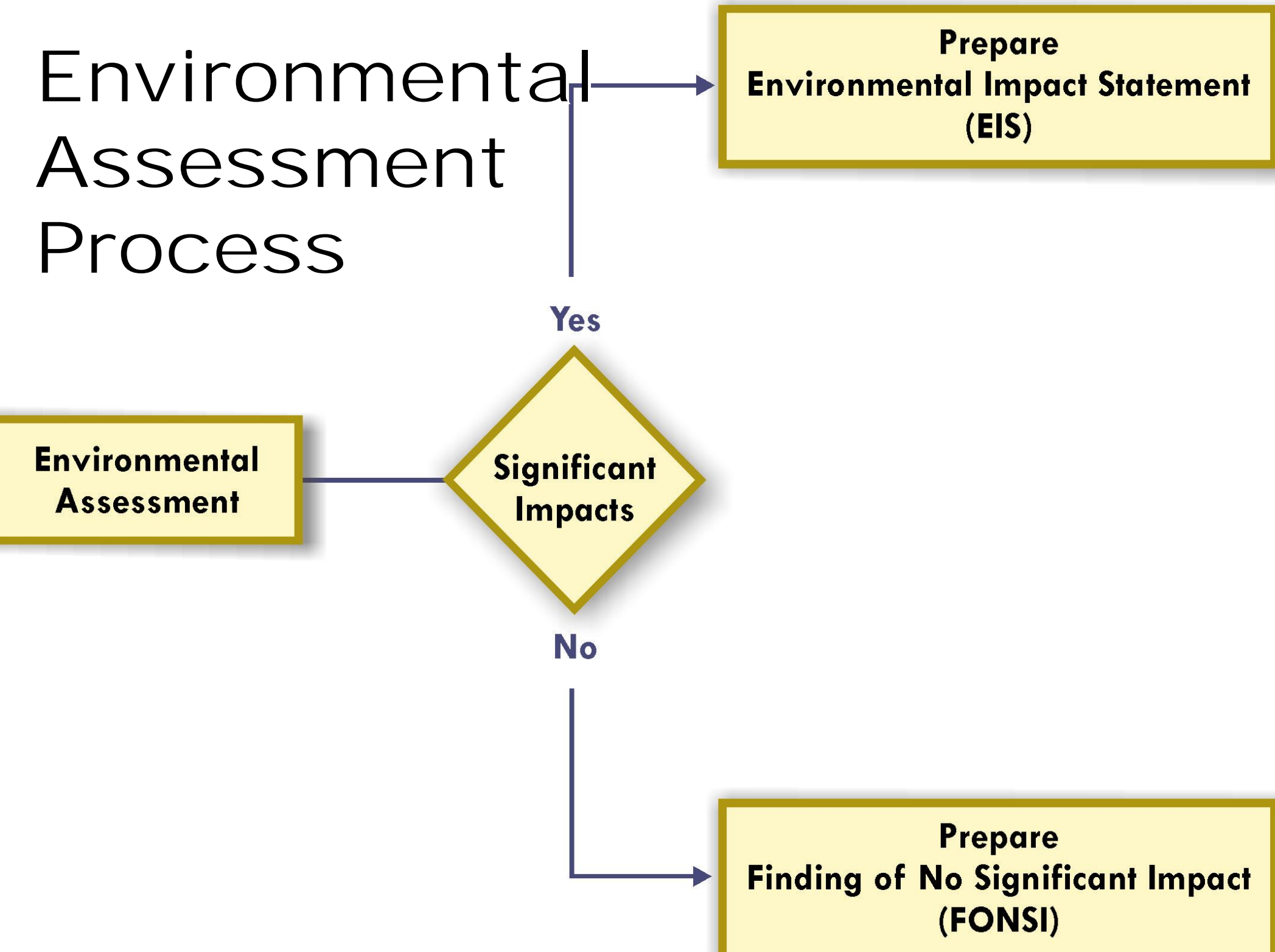
Next Steps

# Environmental Assessment Overview

- Identify impacts associated with each alternative
- Determine whether to prepare:
  - A Finding of No Significant Impact
  - An Environmental Impact Statement



# Environmental Assessment Process



# EA Milestones

- **December 15, 2003**
  - Initial comments for consideration in EA
- **Mid-March 2004**
  - Draft EA available for public review and comment
- **Spring/Summer 2004**
  - Final EA

# Today's Question

What potential impacts should be evaluated in the Environmental Assessment?